

# Shigeo Wada

## List of Publications by Citations

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139  
papers

730  
citations

15  
h-index

24  
g-index

150  
ext. papers

894  
ext. citations

2.8  
avg, IF

4.36  
L-index

#	Paper	IF	Citations
139	Simulation Study on Effects of Hematocrit on Blood Flow Properties Using Particle Method. <i>Journal of Biomechanical Science and Engineering</i> , <b>2006</b> , 1, 159-170	0.8	61
138	A Computational Framework for Personalized Blood Flow Analysis in the Human Left Atrium. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 3284-3294	4.7	45
137	Proposed spring network cell model based on a minimum energy concept. <i>Annals of Biomedical Engineering</i> , <b>2010</b> , 38, 1530-8	4.7	37
136	Effects of Stretching Speed on Mechanical Rupture of Phospholipid/Cholesterol Bilayers: Molecular Dynamics Simulation. <i>Scientific Reports</i> , <b>2015</b> , 5, 15369	4.9	36
135	A three-dimensional particle simulation of the formation and collapse of a primary thrombus. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2010</b> , 26, 488-500	2.6	35
134	Elasticity and viscoelasticity of embolization microspheres. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 2161-7	4.1	33
133	Numerical Simulation of Various Shape Changes of a Swollen Red Blood Cell by Decrease of Its Volume.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2003</b> , 69, 14-21		33
132	Computational fluid dynamics of blood flow in coil-embolized aneurysms: effect of packing density on flow stagnation in an idealized geometry. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 901-10	3.1	31
131	One (sub-)acinus for all: Fate of inhaled aerosols in heterogeneous pulmonary acinar structures. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 113, 53-63	5.1	30
130	Elastic behavior of a red blood cell with the membrane's nonuniform natural state: equilibrium shape, motion transition under shear flow, and elongation during tank-treading motion. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2014</b> , 13, 735-46	3.8	26
129	Molecular dynamics simulations of pore formation in stretched phospholipid/cholesterol bilayers. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 183, 43-9	3.7	25
128	Collapse of a lipid-coated nanobubble and subsequent liposome formation. <i>Scientific Reports</i> , <b>2016</b> , 6, 28164	4.9	22
127	Mathematical model of a heterogeneous pulmonary acinus structure. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 62, 25-32	7	20
126	Minimizing the blood velocity differences between phase-contrast magnetic resonance imaging and computational fluid dynamics simulation in cerebral arteries and aneurysms. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 1605-1619	3.1	17
125	Elastic characteristics of microspherical embolic agents used for vascular interventional radiology. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2010</b> , 3, 497-503	4.1	17
124	Haemorheology in dilute, semi-dilute and dense suspensions of red blood cells. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 872, 818-848	3.7	15
123	Experimental and numerical investigation of the sound generation mechanisms of sibilant fricatives using a simplified vocal tract model. <i>Physics of Fluids</i> , <b>2018</b> , 30, 035104	4.4	14

122	Targeting inhaled fibers to the pulmonary acinus: Opportunities for augmented delivery from in silico simulations. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 137, 105003	5.1	14
121	Contribution of actin filaments to the global compressive properties of fibroblasts. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 14, 192-8	4.1	13
120	A Rule-Based Computational Study on the Early Progression of Intracranial Aneurysms Using Fluid-Structure Interaction: Comparison between Straight Model and Curved Model. <i>Journal of Biomechanical Science and Engineering</i> , <b>2008</b> , 3, 124-137	0.8	13
119	Computational study for the effects of coil configuration on blood flow characteristics in coil-embolized cerebral aneurysm. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 697-710	3.1	12
118	Aeroacoustic analysis on individual characteristics in sibilant fricative production. <i>Journal of the Acoustical Society of America</i> , <b>2019</b> , 146, 1239	2.2	10
117	Deformation of a Red Blood Cell in a Narrow Rectangular Microchannel. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	10
116	Bicelle-to-Vesicle Transition of a Binary Phospholipid Mixture Guided by Controlled Local Lipid Compositions: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 3118-3123	3.4	10
115	Morphological Characterization of Acinar Cluster in Mouse Lung Using a Multiscale-based Segmentation Algorithm on Synchrotron Micro-CT Images. <i>Anatomical Record</i> , <b>2016</b> , 299, 1424-34	2.1	10
114	Effects of tongue position in the simplified vocal tract model of Japanese sibilant fricatives /s/ and /ʃ/. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, EL314	2.2	9
113	Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007943	5	8
112	Mesosopic Blood Flow Simulation Considering Hematocrit-Dependent Viscosity. <i>Journal of Biomechanical Science and Engineering</i> , <b>2010</b> , 5, 578-590	0.8	8
111	Measurement of Blood Flow in the Left Ventricle and Aorta Using Clinical 2D Cine Phase-Contrast Magnetic Resonance Imaging. <i>Journal of Biomechanical Science and Engineering</i> , <b>2007</b> , 2, 46-57	0.8	8
110	Computational model of coil placement in cerebral aneurysm with using realistic coil properties. <i>Journal of Biomechanical Science and Engineering</i> , <b>2015</b> , 10, 15-00555-15-00555	0.8	7
109	Heterogeneous structure and surface tension effects on mechanical response in pulmonary acinus: A finite element analysis. <i>Clinical Biomechanics</i> , <b>2019</b> , 66, 32-39	2.2	7
108	Computational Study of the Non-Newtonian Effect of Blood on Flow Stagnation in a Coiled Cerebral Aneurysm. <i>Nihon Reorji Gakkaishi</i> , <b>2017</b> , 45, 243-249	0.8	6
107	A semiautomatic segmentation algorithm for extracting the complete structure of acini from synchrotron micro-CT images. <i>Computational and Mathematical Methods in Medicine</i> , <b>2013</b> , 2013, 575086	2.8	6
106	Effect of Wall Motion on Arterial Wall Shear Stress. <i>Journal of Biomechanical Science and Engineering</i> , <b>2007</b> , 2, 58-68	0.8	6
105	Performance assessment of displacement-field estimation of the human left atrium from 4D-CT images using the coherent point drift algorithm. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 114, 103454	7	6

104	Model-based inverse estimation for active contraction stresses of tongue muscles using 3D surface shape in speech production. <i>Journal of Biomechanics</i> , <b>2017</b> , 64, 69-76	2.9	5
103	Physically consistent data assimilation method based on feedback control for patient-specific blood flow analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2018</b> , 34, e2910 <sup>26</sup>	2.6	5
102	Effects of the Initial Orientation of Actin Fibers on Global Tensile Properties of Cells. <i>Journal of Biomechanical Science and Engineering</i> , <b>2010</b> , 5, 515-525	0.8	5
101	Analysis of Destruction Process of the Primary Thrombus Under the Influence of the Blood Flow. <i>Journal of Biomechanical Science and Engineering</i> , <b>2007</b> , 2, 34-44	0.8	5
100	Computational studies on strain transmission from a collagen gel construct to a cell and its internal cytoskeletal filaments. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 56, 20-9	7	4
99	Stretch-Induced Interdigitation of a Phospholipid/Cholesterol Bilayer. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 2556-2563	3.4	4
98	Effect of Local Coil Density on Blood Flow Stagnation in Densely Coiled Cerebral Aneurysms: A Computational Study Using a Cartesian Grid Method. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> , 140,	2.1	4
97	Effect of expiratory flow rate on the acoustic characteristics of sibilant /s/. <i>Journal of Computational Science</i> , <b>2012</b> , 3, 298-305	3.4	4
96	Changes in lung sounds during asthma progression in a guinea pig model. <i>Allergology International</i> , <b>2016</b> , 65, 425-431	4.4	4
95	Capture event of platelets by bolus flow of red blood cells in capillaries. <i>Journal of Biomechanical Science and Engineering</i> , <b>2019</b> , 14, 18-00535-18-00535	0.8	4
94	A simplified vocal tract model for articulation of [s]: The effect of tongue tip elevation on [s]. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223382	3.7	3
93	Direct numerical simulation of expiratory crackles: Relationship between airway closure dynamics and acoustic fluctuations. <i>Journal of Biomechanics</i> , <b>2017</b> , 50, 234-239	2.9	2
92	HOME-HEALTH CARE SUPPORT SYSTEM FOR CAREGIVERS USING WEARABLE SYSTEM <b>2006</b> ,		2
91	A FLUID-SOLID INTERACTION STUDY OF THE PULSE WAVE VELOCITY IN UNIFORM ARTERIES <b>2006</b> ,		2
90	Cerebrospinal fluid flow driven by arterial pulsations in axisymmetric perivascular spaces: Analogy with Taylor's swimming sheet. <i>Journal of Theoretical Biology</i> , <b>2021</b> , 523, 110709	2.3	2
89	Computational modeling of braided-stent deployment for interpreting the mechanism of stent flattening. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2020</b> ,	2.6	1
88	How to Measure Cellular Shear Modulus Inside a Chip: Detailed Correspondence to the Fluid-Structure Coupling Analysis <b>2019</b> ,		1
87	Aeroacoustic sound alteration in airway bronchoconstriction, represented by a constricted T-branch model. <i>Journal of Biomechanical Science and Engineering</i> , <b>2015</b> , 10, 14-00246-14-00246	0.8	1

86	Line tension of the pore edge in phospholipid/cholesterol bilayer from stretch molecular dynamics simulation. <i>Journal of Biomechanical Science and Engineering</i> , <b>2015</b> , 11, 15-00422-15-00422	0.8	1
85	Development of a Virtual Coil Model for Blood Flow Simulation in Coil-Embolized Aneurysms <b>2013</b> ,		1
84	A fourth-order Cartesian local mesh refinement method for the computational fluid dynamics of physiological flow in multi-generation branched vessels. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2011</b> , 27, 424-435	2.6	1
83	Effects of Cytoskeletal Orientations on Deformation of a Cell Residing in a Collagen Gel Construct. <i>Journal of Biomechanical Science and Engineering</i> , <b>2012</b> , 7, 2-14	0.8	1
82	COMPUTATIONAL APPROACH TO LEFT VENTRICULAR FLOW FOR DEVELOPING CLINICAL APPLICATIONS <b>2007</b> , 167-191		1
81	A Computational Approach for Blood Flow Analysis in the Densely Coiled Cerebral Aneurysm <b>2016</b> ,		1
80	Fluid dynamic assessment of tracheal flow in infants with congenital tracheal stenosis before and after surgery. <i>Medical and Biological Engineering and Computing</i> , <b>2019</b> , 57, 837-847	3.1	1
79	Modeling of endovascular coiling for cerebral aneurysms: Effects of friction on coil mechanical behaviors. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 166, 105206	5.5	1
78	Effects of Left Ventricular Hypertrophy and Myocardial Stiffness on Myocardial Strain Under Preserved Ejection Fraction. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 1670-1687	4.7	1
77	On the Impact of Left Upper Lobectomy on the Left Atrial Hemodynamics.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 830436	4.6	1
76	A subject-specific assessment of measurement errors and their correction in cerebrospinal fluid velocity maps using 4D flow MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> ,	4.4	1
75	Development of a mesoscopic framework spanning nanoscale protofibril dynamics to macro-scale fibrin clot formation. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20210554	4.1	0
74	Kelvin-Helmholtz-like instability of phospholipid bilayers under shear flow: System-size dependence. <i>Physical Review E</i> , <b>2020</b> , 102, 022408	2.4	0
73	Spring Network Modeling Based on the Minimum Energy Concept <b>2012</b> , 141-179		
72	Computational Fluid Dynamics of Blood Flow in an Extracorporeal Blood Circuit for the Analysis of Thrombogenic Hemodynamic Factors. <i>Journal of Biomechanical Science and Engineering</i> , <b>2011</b> , 6, 89-100	0.8	
71	530 Rule-Based Simulation for Prediction of the Development of Aneurysm. <i>The Proceedings of the Computational Mechanics Conference</i> , <b>2006</b> , 2006.19, 505-506	0	
70	757 Computational Analysis of Wall Thickness at a Three-dimensional Bifurcation Based on the Uniform Strain Hypothesis. <i>The Proceedings of the JSME Annual Meeting</i> , <b>2006</b> , 2006.6, 55-56		
69	2206 Deformation Analysis of a Red Blood Cell Flowing in a Disturbed Flow. <i>The Proceedings of the Computational Mechanics Conference</i> , <b>2007</b> , 2007.20, 331-332	0	

- 68 2205 Proposal of a Membrane/Cytoskeleton Included Cell Model for the Simulation of Tensile and Compressive Tests. *The Proceedings of the Computational Mechanics Conference, 2007*, 2007.20, 329-330<sup>○</sup>
- 67 1101 Relationship between an abnormal respiratory sound and an airflow rate in childhood asthma. *The Proceedings of the JSME Annual Meeting, 2007*, 2007.5, 269-270
- 66 Relationship between an abnormal respiratory sound and an airflow rate in childhood asthma(3C1 Cardiopulmonary & Respiratory Mechanics). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007*, 2007.3, S201
- 65 EFFECTS OF THE DISRUPTION OF ACTIN FILAMENTS AND MICROTUBULES ON THE MORPHOLOGY AND TENSILE PROPERTIES OF FIBROBLASTS(1A2 Micro & Nano Biomechanics II). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007*, 2007.3, S11
- 64 1001 Effects of Disruption of Actin Filaments and Microtubules on the Compressive Properties of Fibroblasts. *The Proceedings of the JSME Annual Meeting, 2007*, 2007.5, 203-204
- 63 EFFECTS OF GAMMA-RAY IRRADIATION ON THE MECHANICAL PROPERTIES AND DEGRADATION RATE OF POLY-L-LACTIC ACID MESH(3A2 Cellular & Tissue Engineering & Biomaterials II). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007*, 2007.3, S177
- 62 PROPOSAL OF MESOSCOPIC ANALYSIS METHOD OF BLOOD RHEOLOGY(3D2 Biorheology & Microcirculation I). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007*, 2007.3, S228
- 61 COMPUTATIONAL STUDY OF PLATELET THROMBUS FORMATION IN A BLOOD FLOW(3D2 Biorheology & Microcirculation I). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007*, 2007.3, S225
- 60 EFFECT OF PASSAGE ON THE COMPRESSIVE PROPERTIES OF CULTURED CHONDROCYTES(1A1 Micro & Nano Biomechanics I). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007*, 2007.3, S5
- 59 1123 Mesoscopic Analysis of Red Blood Cells Flowing through a Micro Blood Vessel. *The Proceedings of the JSME Annual Meeting, 2007*, 2007.6, 85-86
- 58 332 Proposal of the Mechanical Model of a Cell Considering Membrane, Cytoskeleton and Nucleus. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008*, 2007.20, 327-328<sup>○</sup>
- 57 752 Analysis of Dynamic Deformation of a Flowing Red Blood Cell : Comparison with Conventional Hemolysis Indices. *The Proceedings of the Computational Mechanics Conference, 2008*, 2008.21, 867-868<sup>○</sup>
- 56 750 Effects of initial tension in actin filaments on the single cell tensile properties. *The Proceedings of the Computational Mechanics Conference, 2008*, 2008.21, 864-865<sup>○</sup>
- 55 113 Dynamic deformation analysis of a red blood cell in steady and unsteady shear flow. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2008*, 2007.20, 25-26<sup>○</sup>
- 54 B423 Effects of the disruption of cytoskeleton on the three-dimensional morphology of fibroblasts. *The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2008*, 2008.19, 175-176<sup>○</sup>
- 53 A study on differences of production mechanisms between sibilant fricatives /s/ and /sh/. *The Proceedings of Mechanical Engineering Congress Japan, 2018*, 2018, J1020102<sup>○</sup>
- 52 Molecular Dynamics Simulation of Peptide-embedded Liposome Formation. *The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2019*, 2019.30, 1A33<sup>○</sup>
- 51 1A25 Study of respiratory sound using the aeroacoustic analysis with the low-Mach number approximation. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015*, 2015.27, 23<sup>○</sup>

- 50 Lung sound generation and propagation in the airway: Understanding from the aeroacoustics. *Nihon Shoni Arerugi Gakkaishi the Japanese Journal of Pediatric Allergy and Clinical Immunology*, **2015**, 29, 58-64 0.1
- 49 J1050105 Aeroacoustic analysis of sibilant /s/ simplified vocal tract model. *The Proceedings of Mechanical Engineering Congress Japan*, **2015**, 2015, \_J1050105--\_J1050105- 0
- 48 1C42 Molecular dynamics simulation of water permeability through stretched phospholipid/cholesterol bilayer. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2015**, 2015.27, 127-128 0
- 47 PS3-5 MOLECULAR PERSPECTIVE OF WATER PERMEABILITY CHANGES IN PHOSPHOLIPID/CHOLESTEROL BILAYER UNDER MECHANICAL STRESSES(PS3: Poster Short Presentation III,Poster Session). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in* 0
- 46 1B16 Effect of extracted geometries with different threshold image intensities on the patient-specific blood flow analysis with the PC-MRI based data assimilation technique. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2015**, 2015.27, 59-60 0
- 45 PS1-12 ACOUSTIC SOURCE DETECTION OF REALISTIC AIRWAY MODEL USING MICROPHONE ARRAY SYSTEM AND AEROACOUSTIC ANALYSIS(PS1: Poster Short Presentation I,Poster Session). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in* 0
- 44 PS1-15 MICRO-CT-BASED MORPHOLOGICAL MEASUREMENT OF MOUSE ACINAR CLUSTER AND THE OXYGEN DIFFUSION ANALYSIS(PS1: Poster Short Presentation I,Poster Session). *The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics*, **2015**, 2015.8, 236 0
- 43 2F33 Modeling of heterogeneous micro vasculature network at the pulmonary acinus level. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2015**, 2015.27, 535-536 0
- 42 1E21 Inverse analysis of cell traction force using depth expansion model. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2016**, 2016.28, \_1E21-1-\_1E21-4\_ 0
- 41 A blood flow analysis method based on variational data assimilation for patient-specific medical support. *The Proceedings of the JSME Conference on Frontiers in Bioengineering*, **2016**, 2016.27, B207 0
- 40 Aeroacoustic analysis of fricatives /s/ and /sh/ using simplified vocal tract model. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2017**, 2017.29, 1C41 0
- 39 Computational study of patient-specific blood flow simulation on cerebral aneurysm with PC-MRI measurement using feedback control based data assimilation method. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2017**, 2017.29, 2C41 0
- 38 S0201-2-6 Effect of disruption of central stress fibers on the tensile properties of fibroblasts. *The Proceedings of the JSME Annual Meeting*, **2009**, 2009.5, 23-24 0
- 37 333 Proposal of hemolysis indices based on the deformation analysis of a flowing RBC. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2009**, 2008.21, 367-368 0
- 36 B208 Effects of stress fibers on the tensile properties of fibroblasts. *The Proceedings of the JSME Conference on Frontiers in Bioengineering*, **2009**, 2009.20, 107-108 0
- 35 2015 Compressive test of a cell based on energy minimum principle. *The Proceedings of the Computational Mechanics Conference*, **2009**, 2009.22, 771-772 0
- 34 B211 Deformation of a fast-flowing red blood cell toward a wall. *The Proceedings of the JSME Conference on Frontiers in Bioengineering*, **2009**, 2009.20, 113-114 0
- 33 J0504-5-3 Study on the Production of Sibilant/s/by simultaneous Measurements of Aeroacoustic Sound and Vibration of an Obstacle Wall. *The Proceedings of the JSME Annual Meeting*, **2010**, 2010.7, 111-112 0

- 32 T0201-1-5 Changes in surface area and volume of fibroblasts during cell spreading on the substrate. *The Proceedings of the JSME Annual Meeting, 2010*, 2010.8, 137-138
- 31 A109 Simultaneous measurement of aero acoustic sound and vibration radiated from a intra-oral cavity model with a lower tooth : Effects of a velocity at the sibilant groove. *The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2010*, 2010.21, 17-18 ○
- 30 A211 Effect of actin filaments on the global compressive properties of single fibroblasts. *The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2010*, 2010.21, 59-60 ○
- 29 2009 Computer simulation of the deformation of an adherent cell under substrate stretching. *The Proceedings of the Computational Mechanics Conference, 2010*, 2010.23, 18-19 ○
- 28 A223 Simulation of cell adhesion and spreading using mechano-cell model. *The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2011*, 2011.22, 123-124 ○
- 27 8H-16 Computational studies on the strain transmission from a biological tissue to a cell and cytoskeletons. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011*, 2010.23, 279-280 ○
- 26 9D-18 Effects of the Expiratory Flow Rate on the Acoustic Nature of Sibilant /s/. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011*, 2010.23, 523-524 ○
- 25 Mechanics of Biofluids and Computational Analysis **2012**, 87-140
- 24 A108 Computational analysis of oxygen diffusion in the pulmonary acinus using the heterogeneous structure model. *The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2012*, 2012.23, 15-16 ○
- 23 J026016 Molecular dynamics simulations of ionic transport across a lipid bilayer under ultrasound exposure. *The Proceedings of Mechanical Engineering Congress Japan, 2012*, 2012, \_J026016-1- \_J026016-2 ○
- 22 J025011 Computational study of dynamic motion of hyperelastic membrane imposing surface incompressibility. *The Proceedings of Mechanical Engineering Congress Japan, 2012*, 2012, \_J025011-1- \_J025011-5 ○
- 21 802 Numerical simulation for dynamic motion of red blood cells with membrane viscoelasticity. *The Proceedings of the Computational Mechanics Conference, 2012*, 2012.25, 1-2 ○
- 20 7E32 Structural changes of a lipid bilayer in the molecular level under ultrasound exposure. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012*, 2012.24, 7E32 ○
- 19 2503 A measurement-integrated simulation of blood flow based on optimization method. *The Proceedings of the Computational Mechanics Conference, 2013*, 2013.26, \_2503-1\_- \_2503-2\_ ○
- 18 WS23 The role of biomechanical simulation in predictive medicine. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013*, 2013.25, 56 ○
- 17 2502 Numerical Simulation for Dynamic Motion of Red Blood Cell based on Membrane Viscoelasticity Model. *The Proceedings of the Computational Mechanics Conference, 2013*, 2013.26, \_2502<sup>0</sup>-1\_- \_2502-2\_ ○
- 16 J021025 Numerical study of hemodynamic effects on coil embolization in patient-specific models of cerebral aneurysm. *The Proceedings of Mechanical Engineering Congress Japan, 2013*, 2013, \_J021025-1- \_J021025-5 ○
- 15 A feedback-type data-assimilation method for blood flow analysis incorporating the physical consistency. *The Proceedings of the Computational Mechanics Conference, 2014*, 2014.27, 432-433 ○



- 14 2A16 Estimation of Critical Radius of Reversible Pore in Cell Membranes Using Molecular Dynamics Simulation. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014*, 2014.26, 261-262 ○
- 13 J0910105 Effects of cross-sectional shape in coronal plane on the sound generation of sibilant /s/. *The Proceedings of Mechanical Engineering Congress Japan, 2014*, 2014, \_J0910105--\_J0910105- ○
- 12 J0240103 Molecular Dynamics Simulation of L<sub>α</sub> Phase Formation in Stretched Phospholipid/Cholesterol Bilayer : Toward Understanding Mechanical Hemolysis. *The Proceedings of Mechanical Engineering Congress Japan, 2014*, 2014, \_J0240103--\_J0240103- ○
- 11 1A42 Structural changes of cell membranes induced by shock waves : Molecular dynamics simulations. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014*, 2014.26, 39 ○
- 10 2B13 The effect of heterogeneous micro structure of pulmonary acinus on the oxygen uptake at alveoli. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014*, 2014.26, 297-298 ○
- 9 S0220203 Computational analysis of coil distribution in the cerebral aneurysm. *The Proceedings of Mechanical Engineering Congress Japan, 2014*, 2014, \_S0220203--\_S0220203- ○
- 8 1B16 Pulmonary acinar morphological measurement and analysis using 3D micro-CT based models extracted by multiscale-based segmentation algorithm. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014*, 2014.26, 53-54 ○
- 7 A braided stent becomes flattened inside a curved catheter tube: A micro-CT imaging study. *Bio-Medical Materials and Engineering, 2020*, 31, 373-380 1
- 6 Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm **2020**, 16, e1007943
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- 2 Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm **2020**, 16, e1007943
- 1 Multiscale modeling of human cerebrovasculature: A hybrid approach using image-based geometry and a mathematical algorithm **2020**, 16, e1007943